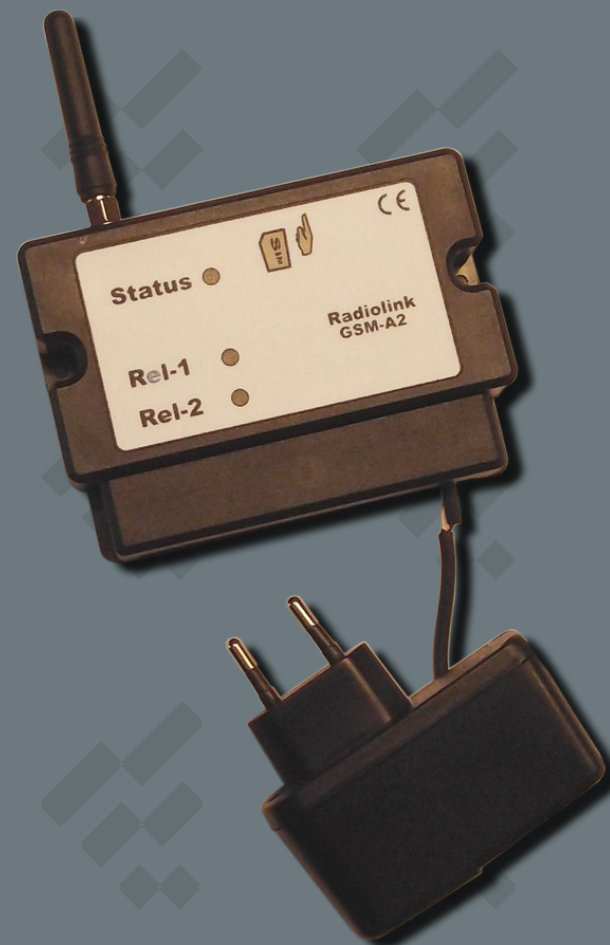


# ARITERM

*For a sustainable future*

## INSTALLATION and OPERATING INSTRUCTIONS

ARITERM GSM A2



*kmp*



Arterm GSM-A2 is a compact universal alarm transmitter that transmits alarms and receives commands via SMS. The alarm and status changes appear as explanatory text depending on which pre-programming one selects.

One can then add more numbers via SMS.

Works with operators in the 2G network and higher.

Both pay-as-you-go and subscriptions can be used.

1. Connect the burner or stove according to the diagrams on the following pages. If one connects a burner or stove with control CC05 it must be connected according to image A and B. The Remote function must be activated in the controller Service menu (See manual).
2. Carefully slide the SIM card into the A2's upper edge with the chip towards you and the bevel down to the left. Image C.
3. Connect 9208 AC -DC adapter 24Vdc to a wall socket. When the voltage supply is connected the "Status" flashes quickly for 30-40 seconds, then 1-5 slow flashes. The flashes displays the GSM network signal strength.
4. Initiate the unit by SMSing **Arterm!!** or **Arterm!!01** depending on the connection used. Note that the number used for initiation is the first number receiving alarms. Check the unit by SMSing **Status?**
5. Add more numbers that receive alarms by SMSing **TELE!\*2** followed by the mobile number that will receive alarms.  
Country prefix (eg +46 for Sweden) replaces the first zero in the telephone number.

**TELE!\*3 +4671234567**

and so on.

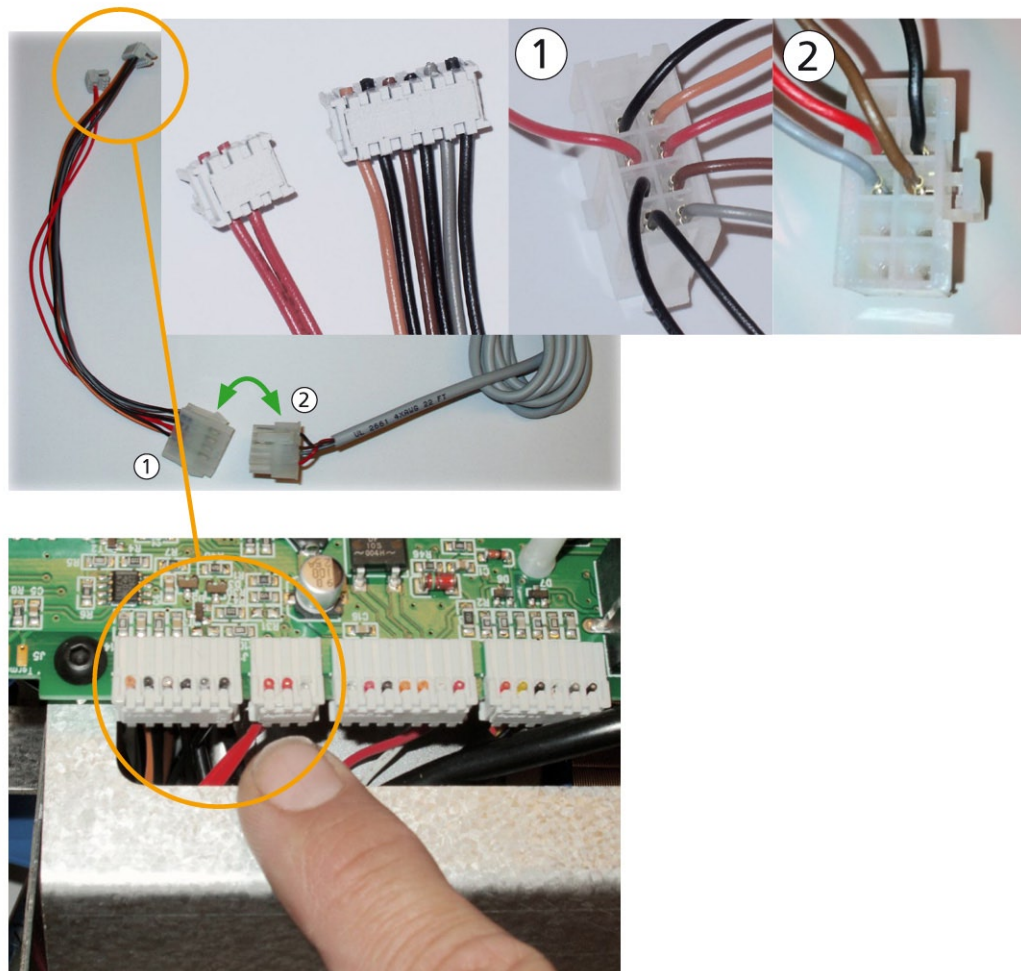


Image A

1350 Capacitive sensor, EC1808

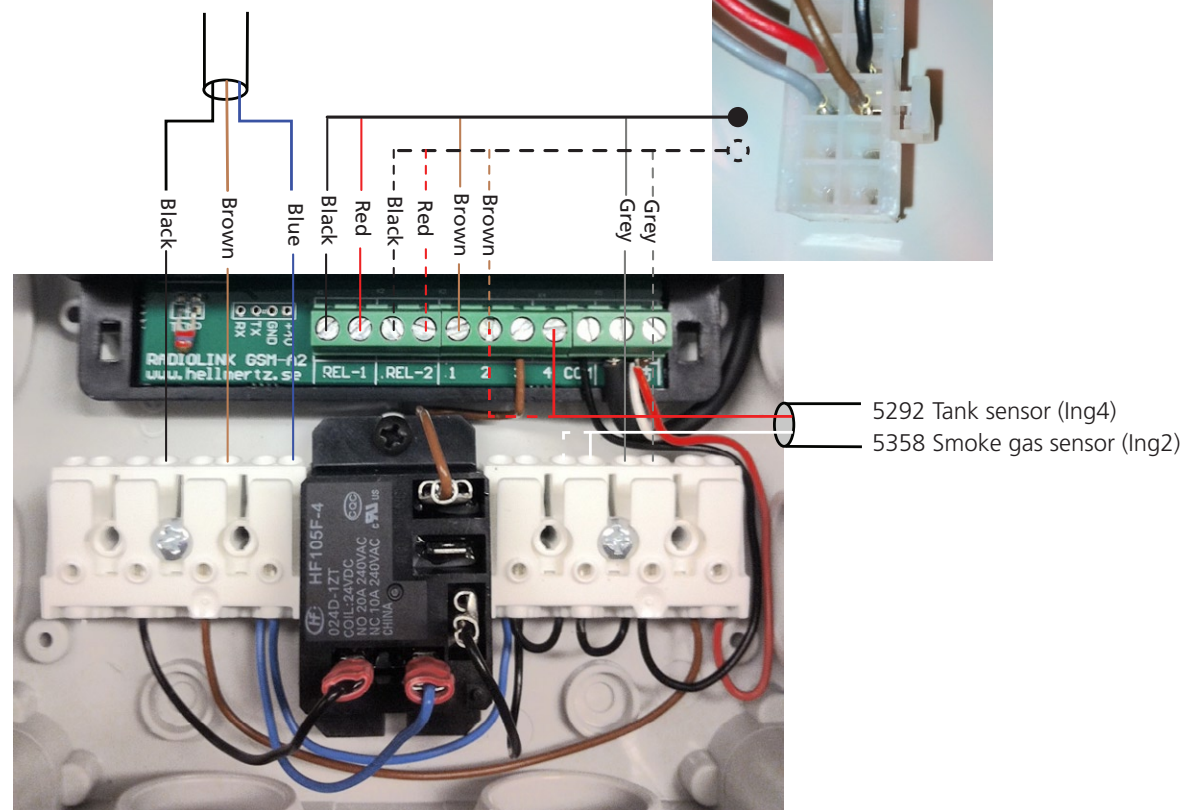


Image B

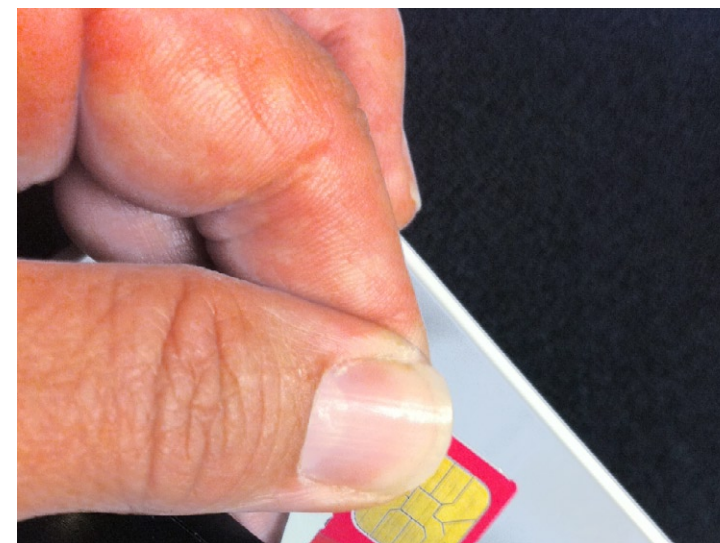
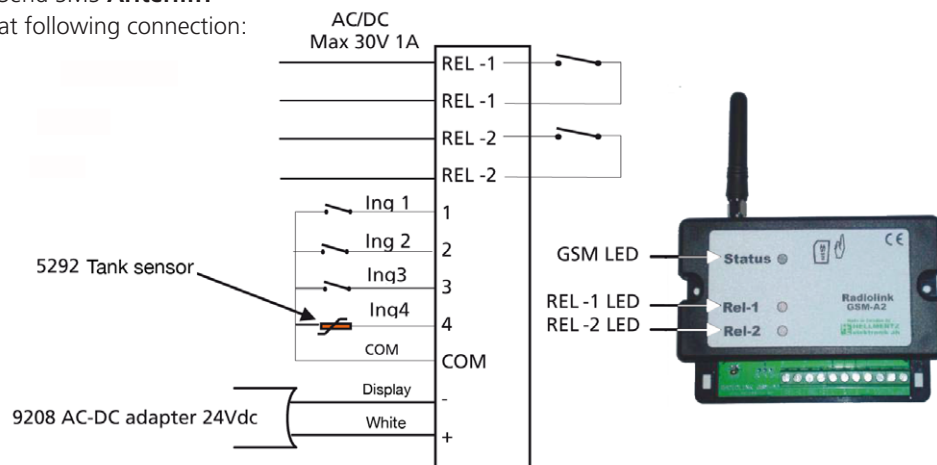


Image C

The system contains two types of initiations: **Ariterm!!** and **Ariterm!!01**

Send SMS **Ariterm!!**

at following connection:



Input 1 (Ing1 - COM): Alarm or status changes

Alarm relay from the burner to the stove. (grey-brown)

When the burner or stove is started SMS **Started1(Msg100)** is sent.

When the burner or stove is stopped SMS **Stopped1(Msg101)** is sent.

When the burner or stove stops during operational stoppage SMS **Alarm1(Msg102)** is sent.

Input 2 (Ing2 - COM): Alarm or status changes

Alarm relay from the burner to the stove. (grey-brown)

When the burner or stove is started SMS **Started2(Msg104)** is sent.

When the burner or stove is stopped SMS **Stopped2(Msg105)** is sent.

When the burner or stove stops during operational stoppage SMS **Alarm2(Msg106)** is sent.

Input 3 (Ing3 - COM): Level alarm pellet store

Level alarm fuel. 1350 Capacitive sensor.

If the pellets are missing for more than 10 sec. SMS **Storage Alarm (Msg107)** is sent.

Input 4 (Ing4 - COM): Temperature alarm

5292 Tank sensor.

Settable temperature limit (Tmp4). Factory setting 50°, setting range 10-90°.

Sends SMS **TempAlarm (Msg108)** if the temperature has fallen below the temperature limit (Tmp4) for more than 5 mins.

At first start: The function is deactivated until the temperature rises above the temperature limit.

To modify the temperature limit:

Send: **Temp??**

As a response you get: Temp\*\*1,+053, \*2,+240, \*3,+053, \*4,+050, \*5,+053, \*

Example: We wish to change the temperature limit to +80 degrees.

Send: **Temp!\*4,+080,\*** (No spaces)

As a response you get: Temp\*\*1,+053, \*2,+240, \*3,+053, \*4,+080, \*5,+053, \*

Relay 1 (REL-1)

Remote input burner or stove (red-black)

Operate with SMS: **Remote** Relay 1 draws for 5 secs.

Relay 2 (REL-2)

Remote input burner or stove (red-black)

Operate with SMS: **Remote2** Relay 2 draws for 5 secs.

To check the system send SMS **Status?**

Response:

Status Ariterm:

Supply 12.26 volt

GSM signal: 4

Temp.Internal +026C

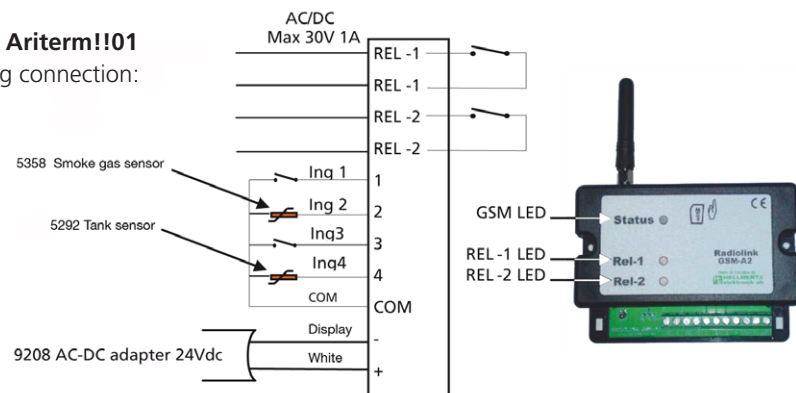
Alarm1 (Msg102) Alarm2 (Msg106)

**Other**

The unit remembers the last status after the power cut.



Send SMS **Ariterm!!01**  
at following connection:



Input 1 (Inq1 - COM): Alarm or status changes  
Alarm relay from the burner to the stove. (grey-brown)  
When the burner or stove is started SMS **Started1(Msg100)** is sent.  
When the burner or stove is stopped SMS **Stopped1(Msg101)** is sent.  
When the burner or stove stops during operational stoppage SMS **Alarm1(Msg102)** is sent.

Input 2 (Inq2 - COM): Smoke gas alarm  
5358 Smoke gas sensor.  
Settable temperature limit (Tmp2). Factory setting 240°, setting range 20-300°.  
If the temperature is above the temperature limit for longer than 10 minutes, SMS **Flue gas Alarm (Msg103)** is sent.

To modify the temperature limit:

Send: **Temp??**

As a response you get: Temp\*\*1,+053, \*2,+240, \*3,+053, \*4,+050, \*5,+053, \*  
Example: We wish to change the temperature limit to +180 degrees.

Send: **Temp!\*2,+180,\*** (no spaces)

As a response you get: Temp\*\*1,+053, \*2,**+180**, \*3,+053, \*4,+050, \*5,+053, \*

Input 3 (Inq3 - COM): Level alarm pellet store  
Level alarm fuel. 1350 Capacitive sensor.  
If the pellets are missing for more than 10 sec. SMS **Storage Alarm (Msg107)** is sent.

Input 4 (Inq4 - COM): Temperature alarm  
5292 Tank sensor.  
Settable temperature limit (Tmp4). Factory setting 50°, setting range 10-90°.  
Sends SMS **TempAlarm (Msg108)** if the temperature has fallen below the temperature limit (Tmp4) for more than 5 mins.

At first start: The function is deactivated until the temperature rises above the temperature limit.

To modify the temperature limit:

Send: **Temp??**

As a response you get: Temp\*\*1,+053, \*2,+240, \*3,+053, \*4,+050, \*5,+053, \*

Example: We wish to change the temperature limit to +80 degrees

Send: **Temp!\*4,+080,\*** (no spaces)

As a response you get: Temp\*\*1,+053, \*2,+240, \*3,+053, \*4,**+080**, \*5,+053, \*

Relay 1 (REL-1)

Remote input burner or stove (red-black)

Operate with SMS: **Remote** Relay 1 draws for 5 secs.

Relay 2 (REL-2)

Remote input burner or stove (red-black)

Operate with SMS: **Remote2** Relay 2 draws for 5 secs.

To check the system send SMS **Status?**

Response:

Status Ariterm:

Supply 12.30 volt

GSM signal: 4

Temp.Internal +061

Temp. Flue gas +250

Alarm1 (Msg102) Alarm2 (Msg106)

**Other**

The unit remembers the last status after the power cut

## Technical data

Dimensions	105 x 80 x 30 mm
Voltage	10 - 28 VDC
Current consumption	Standby approx 20 mA
Inputs	4 alarm zones NO or NC or temperatures
Outputs	2 Closing relay outputs 1A 24V AC/DC
Temperature measurements	Internally in the unit, can be supplemented with temperature sensors on inputs 1 - 4
Temperature range	-20 to +55 degrees C



## ■ Quick reference guide commands and SMS questions for GSM-A2

Send	Meaning	Response	Comments
Ariterm!!	Activation of factory settings	GSM Ariterm initiation ok	Sending number becomes first alarm number
Ariterm!!01	Activation of factory settings	GSM Ariterm initiation ok	Sending number becomes first alarm number
Status?	Status request	Return SMS with Status	System overview
Tele??	Request entered Telephone numbers	Return SMS with all entered numbers	
Tele!*2, +46701234567	Add telephone number 2 with country prefix	Return SMS with all entered numbers	Same procedure for remaining numbers (total 8)
Tele!*2,	Erases telephone number 2	Return SMS with all entered numbers	Overwrites old info
Temp?	Query current temperature	Return SMS with temp	Current value
Volt?	Query current voltage supply	Return SMS with voltage	Current value
Remote	Activate relay REL-1 5 s	With CC05 an acknowledgement is obtained via Ing1.	CC05 is started and stopped unit 1.
Remote1	Activate relay REL-1 5 s	With CC05 an acknowledgement is obtained via Ing1.	CC05 is started and stopped unit 1.
Remote2	Activate relay REL-1 5 s	With CC05 an acknowledgement is obtained via Ing2.	CC05 is started and stopped unit 2.

## ■ Lathund Larm och Meddelanden

Send	Meaning	Comments
Gsm Ariterm initiering ok	Activation of factory settings approved.	Received after initiation.
Started1 (Msg100)	Unit 1 started.	Unit started via button or Remote.
Stopped1 (Msg101)	Unit 1 stopped.	Unit stopped via button or Remote.
Alarm1 (Msg102)	Unit 1 gives alarm for operational stoppage.	Information about type of operational stoppage is read off on unit display.
Flue gas Alarm (Msg103) +134C	The unit gives alarm for smoke gas alarm.	Smoke gas temperature has exceeded set value for more than 10 min.
Storage Alarm (Msg107)	The unit alarms for too low level in pellets store.	Assumes that capacitive sensor is connected.
TempAlarm (Msg108)	The unit gives alarm for low boiler temperature.	Boiler temperature has fallen below set value for more than 5 min.
Started2 (Msg104)	Unit 2 started.	Unit started via button or Remote2.
Stopped2 (Msg105)	Unit 2 stopped.	Unit stopped via button or Remote2.
Alarm2 (Msg106)	Unit 2 gives alarm for operational stoppage.	Information about type of operational stoppage is read off on unit display.

If these instructions are not followed at installation, operation and maintenance,  
Ariterm Sweden AB's applicable warranties are not binding.  
Ariterm reserves the right to make changes to components  
and specifications without prior notice.



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